

What is claimed is:

1. An in-wheel motor system having a hollow direct drive motor which is provided in a wheel and whose stator side is supported to a part around the wheel of a vehicle by elastic bodies and/or an attenuation mechanism, wherein

a motor rotor and a wheel or a hub are interconnected by a coupling mechanism which comprises a wheel-side plate connected to the wheel or hub, a motor-side plate connected to the rotating side case of the motor, an intermediate plate interposed between these two plates, and first and second slide members for interconnecting between the wheel-side plate and the intermediate plate and between the intermediate plate and the motor-side plate, each having roller members whose moving directions are limited by guide portions, and arranged in such a manner that their moving directions are orthogonal to each other.

2. The in-wheel motor system according to claim 1, wherein contact portions which extend in the moving directions of the roller members and are brought into contact with the side faces of the roller members are provided on the intermediate plate to limit the moving directions of the roller members.

3. The in-wheel motor system according to claim 1 or

2, comprising an elastic annular dust boot for storing the first and second slide members.

4. An in-wheel motor system having a hollow direct drive motor which is provided in a wheel and whose stator side is supported to a part around the wheel of a vehicle by elastic bodies and/or an attenuation mechanism, wherein

a motor rotor and a wheel or a hub are interconnected by a coupling mechanism which comprises a wheel-side plate connected to the wheel or hub, a motor-side plate connected to the rotating side case of the motor, an intermediate plate interposed between these two plates, and first and second slide members for interconnecting between the wheel-side plate and the intermediate plate and between the intermediate plate and the motor-side plate, each consisting of linear bearings and a rod, and arranged in such a manner that their moving directions are orthogonal to each other.

5. The in-wheel motor system according to claim 4, comprising an elastic annular dust boot for storing the first and second slide members.

6. An in-wheel motor system having a hollow direct drive motor which is provided in a wheel and whose stator

side is supported to a part around the wheel of a vehicle by elastic bodies and/or an attenuation mechanism and a coupling member having a slide mechanism for connecting the rotor of the motor to the wheel or hub, wherein

an elastic annular dust boot for storing the slide mechanism is provided.